Embedded Lighting

The future of integrating lighting into architectural materials
INNOVATION CORES

- Connected Lighting
- Embedded Lighting
- Sustainable Lighting

Key Innovations:
- BIM & Simulation
- Miniaturization
- Communication Standards
- Light as a Material
- Service Innovations
- Digital Fabrication
- Circular Economy
- Low-Impact Design
- Reclamation/Reuse
A revolution has occurred in architectural construction.

Harbin Opera House
MAD Architects
Why are our lighting systems constrained to “fixtures”? 
Architects want to treat light like a material
Luminous solutions by Philips Lighting

One Space | Luminous Textiles | Luminous Carpets | Luminous Patterns
Meeting at 4:00

Philips Luminous Carpets
Fabric + Media Content

Kvadrat textile
Philips Luminous Patterns
Richard Kelly
Pioneering mid-century lighting designer

3 types of lighting:

• Focal Glow
• Ambient Luminescence
• Play of Brilliants
Parametric Design
Embedded Lighting:

What does the future hold?
The future?

Light as a material

“...the integration of energy harvesting, sensing, control, and illumination into a single, flexible, high-volume, eco-friendly material...”

Sheila Kennedy, Harvard Graduate School of Design (1999)
LED wallpaper

LED Wallpaper (2011)
Ingo Maurer
Planar sheets of light

Cooledge Lighting (2014)
StoneGate Design
The future?

Light as a textile

E-Static Shadows (2009)
Zane Berzina, et al
The future?

Light as a textile

Forster Rohner
The future?

Light as sheet
BIM/Parametric/Digital Fab

Light as a Material

Healthy Light
Aurora – DirectTV Headquarters (2013)
Electroland
Thank you!

brad.koerner@philips.com

www.lucept.com